IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A system for control and supervision of residential control in a broadband network ~~(10), characterized in that it comprises~~ comprising a plurality of ~~at least one of the following features provided by~~ hardware and software broadband network dedicated units including at least a protocol server, and a membership policy server ~~means (M2, 22, 24, 26, 28, 30):~~, wherein in order to provide service differentiation for customers, said plurality of units is configured to:

~~port~~ control a port by feeding a protocol server ~~(30)~~ for auto-configuration of client network parameters with information from ~~a~~ the membership policy server, ~~(28)~~ said policy server providing that each network customer address can be connected to a unique name of a port for one customer inside the network;

assure a class of service ~~assurance~~ for specific types of customer equipment ~~(14)~~ while denying attempts to lease additional customer addresses through said protocol server, ~~(30)~~ said protocol server ~~which keeps~~ keeping a record of all assigned addresses to said policy server ~~(28)~~;

provide forced direction for network login procedure by redirecting a customers browser to a predetermined login procedure when a network connected equipment is turned on, thus providing a controlled way of identifying each customer before using other services; ~~or~~ and

provide abuse and anti-spoof protection by adjusting ~~boarder~~ border gateway control routing tables in real time ~~in~~ with respect ~~of~~ to said protocol for auto-configuration~~;~~

~~thereby providing services differentiation for customers~~.

2. (Currently amended) A system according to claim 1, ~~characterized in that it announces~~ wherein said plurality of units is further configured to announce helper addresses as dynamic routes providing instant fail-over if a daemon fails by withdrawing routes from a network service providers boarder gateway control table, ~~whereby~~ wherein a lower prioritized daemon immediately takes control, ~~and~~ which provides that it is impossible for a customer to use an address without leasing it from said protocol server ~~(30)~~.

3. (Currently amended) A system according to claim 1, ~~characterized in that it adjusts~~ wherein said plurality of units is further configured to adjust ~~boarder~~ border gateway protocol routes to customer devices/equipment ~~(14)~~ in real time according to protocol for auto-configuration of client network parameters, thus enhancing load balancing in network ~~(10)~~ fiber rings.

4. (Currently amended) A system according to claim 1, ~~characterized in that it comprises~~ wherein said plurality of units is further configured to provide real time traffic analyzing detecting unauthorized servers run by a customer and a software which provides network address translation.

5. (Currently amended) A system according to claim 1, ~~characterized in that~~ wherein said port control controls activation and deactivation of residential access ports.

6. (Currently amended) A system according to claim 1, ~~characterized in that~~ wherein said port control ~~provides the assigning of~~ assigns a static network address to a specific port and MAC address.

7. (Currently amended) A system according to claim 1, ~~characterized in that~~ wherein said forced ~~redirection~~ direction provides forced network portal logins.

8. (Currently amended) A system according to claim 1, ~~characterized in that it provides~~ wherein said plurality of units is further configured to provide traffic mediation which enables the system to aggregate Cisco® NetFlow ~~(24)~~ information based on a ~~resedential~~ residential port.

9. (Currently amended) A system according to claim 1, ~~characterized in that it provides~~ wherein said plurality of units is further configured to provide port snooping through display of port information or port link states.

10. (Currently amended) A system according to claim 1, ~~characterized in that it provides~~ wherein said plurality of units is further configured to provide network address to

residential port logging, which enables to find out who a specific network address was leased to at a given time~~, which provides~~ so as to administer abuse ~~administration~~ in a broadband network ~~(10)~~.

11. (New) A system for control and supervision of residential control in a broadband network comprising a plurality of hardware and software broadband network dedicated units including at least a protocol server, and a membership policy server, wherein in order to provide service differentiation for customers, said plurality of units is configured to provide real time traffic analyzing detecting unauthorized servers run by a customer and a software which provides network address translation, said plurality of units being further configured to at least:

control a port by feeding a protocol server for auto-configuration of client network parameters with information from the membership policy server, said policy server providing that each network customer address can be connected to a unique name of a port for one customer inside the network;

assure a class of service for specific types of customer equipment while denying attempts to lease additional customer addresses through said protocol server, said protocol server keeping a record of all assigned addresses to said policy server;

provide forced direction for network login procedure by redirecting a customers browser to a predetermined login procedure when a network connected equipment is turned on, thus providing a controlled way of identifying each customer before using other services; or

provide abuse and anti-spoof protection by adjusting border gateway control routing tables in real time with respect to said protocol for auto-configuration.

12. (New) A system according to claim 11, wherein said plurality of units is further configured to announce helper addresses as dynamic routes providing instant fail-over if a daemon fails by withdrawing routes from a network service providers boarder gateway control table, wherein a lower prioritized daemon immediately takes control, which provides that it is impossible for a customer to use an address without leasing it from said protocol server.

13. (New) A system according to claim 11, wherein said plurality of units is further configured to adjust border gateway protocol routes to customer devices/equipment in real time according to protocol for auto-configuration of client network parameters, thus enhancing load balancing in network fiber rings.

14. (New) A system according to claim 11, wherein said port control controls activation and deactivation of residential access ports.

15. (New) A system according to claim 11, wherein said port control assigns a static network address to a specific port and MAC address.

16. (New) A system according to claim 11, wherein said forced direction provides forced network portal logins.

17. (New) A system according to claim 11, wherein said plurality of units is further configured to provide traffic mediation which enables the system to aggregate Cisco® NetFlow information based on a residential port.

18. (New) A system according to claim 11, wherein said plurality of units is further configured to provide port snooping through display of port information or port link states.

19. (New) A system according to claim 11, wherein said plurality of units is further configured to provide network address to residential port logging, which enables to find out who a specific network address was leased to at a given time so as to administer abuse in a broadband network.